

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R				
1			Date:	3/24/2023	H ₂ puffing into Ar discharge																	
2			Run description:	FRC/RMFO																		
3			Base pressures: SEC IG (T)	+0.007																		
4			CC IG (T)	-0.008																		
5			FEC IG (T)	3e-5																		
6			SEC Slow Baratron (T)	+0.007																		
7			CC Slow Baratron (T)	-0.008																		
8			RMF frequency & phase	1.8 kHz																		
9			Magnet configuration & PS	4x8 + 8x4 coils; BB PS & 2 Magna powers inside 8; eight BN-covered FCs										Recentered 4-turn MC coil								
10			RMF system	SRS -> duty factor limiters -> AR100LM9 -> 8KD -> 200 kW home made										antennas: 2-turn; cable: RG-226, 60" long								
11			Time	10:30	10:55	11:14	11:27	11:37	11:41	11:49	12:00	12:10	12:16	12:22	12:27	12:30	12:34					
12	Magnapower	L-2 Coils I (A)	201	201	200	203	200	200	200	200	255	254						301				
13	Big Blue	L-2 Coils I (A)	190	190	190	190	189	190	190	190	257	256						305				
14		Nozzle coils I (A)	101	101	100	100	100	100	100	100	100	100						100				
15		SEC IG (T)	+0.009	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.009										
16		SEC Slow Baratron (T)																				
17		CC IG (T)																				
18		CC slow Baratron (T)	.445	.431	.407	.412	.412	.419	.42		.452	.427										
19		FEC IG (T)	1.3	1.3	1.2	1.3	1.2	1.2	1.2		1.2	1.2										
20		FEC FB (T)	e-5	e-5	e-5	e-5	e-5	e-5	e-5		e-5	e-5										
21		Ta paddle voltage																				
22		Main valve	C																			
23		Navigator valve																				
24		End turbo valve																				
25		Gases/feed location/scm	Ar/He																			
26		PV-10 (V)																				
27		Pulse A to/dt																				
28		B to/dt																				
29		CC Pressure (mT)	Pb																			
30		(Fast Baratron)	Pa																			
31	170 GHz	dia (mV)/IM freq																				
32	Glassman	High Voltage (kV)																				
33	RMFO system	main SRS																				
34		Pulse width (ms)																				
35		Time between pulses (s)																				
36		Frequency: Center(MHz)/Span(KHz)																				
37		Phase °																				
38		Pa																				
39		Pf (kW)																				
40		PM or % reflected																				
41		FEC probe	1.12																			
42		CC Probe	.10																			
43		Helicon Pf/Pr																				
44		Helicon (SRS/mod)																				
45	Comments/changes: for Δφ = π/2, n _e = 2.1e12 cm ⁻³ for 16-cm dia plasma																					

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
1			Date:	3/24/2023															
2			Run description:	FRC/RMFO															
3			Base pressures: SEC IG (T)																
4			CC IG (T)																
5			FEC IG (T)																
6			SEC Slow Baratron (T)																
7			CC Slow Baratron (T)																
8			RMF frequency & phase																
9			Magnet configuration & PS	4x8 + 8x4 coils; BB PS & 2 Magna powers inside 8; eight BN-covered FCs Recentered 4-turn MC coil															
10			RMF system	SRS -> duty factor limiters -> AR100LM9 -> 8KD -> 200 kW home made antennas: 2-turn; cable: RG-226, 60" long															
11			Time	12:38 12:43 12:44															
12		Magnapower	L-2 Coils I (A)	300															
13		Big Blue	L-2 Coils I (A)	303															
14			Nozzle coils I (A)	100															
15			SEC IG (T)																
16			SEC Slow Baratron (T)																
17			CC IG (T)																
18			CC slow Baratron (T)	c. 448 2.32 off															
19			FEC IG (T)																
20			FEC FB (T)																
21			Ta paddle voltage	c. 6															
22			Main valve	c. 6															
23			Navigator valve	c. 6															
24			End turbo valve	c. 6															
25			Gases/feed location/sccm																
26			PV-10 (V)																
27			Pulse A to/Δt	NO															
28			B to/Δt	H															
29			CC Pressure (mT)	Pb															
30			(Fast Baratron)	Pa															
31			170 GHz	dia (mV)/1M freq															
32			Glassman	High Voltage (kV)															
33			RMFO system	main SRS															
34			Pulse width (ms)	5 ms															
35			Time between pulses (s)	5 ms															
36			Frequency: Center(MHz)/Span(KHz)																
37			Phase °																
38			Pa																
39			Pf (kW)																
40			OM or % reflected																
41			FEC probe	1.908															
42			CC Probe	-3.12															
43			Helicon Pf/Pr																
44			Helicon (SRS/mod)	2.17															
45	Comments/changes:				for Δφ = π/2, ne = 2.1e12 cm-3 for 16-cm dia plasma														